

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

**Claims 1-4 (canceled)**

1           **Claim 5 (currently amended):** A semiconductor device,  
2       comprising:

3           ~~which is formed by~~ combining and disposing means for  
4       combining and disposing pre-registered functional blocks,  
5       and

6           wiring means for determining a wiring pattern in  
7       accordance with a given logic circuit specification,  
8       ~~wherein:~~

9           wherein at least one of the functional blocks has a  
10       logic circuit and a diode, ~~and~~

11           the diode is composed of a first conduction type  
12       diffusion layer and a second conduction type well connected  
13       to a power source, and

14           the diode is connected to a potential-clamped input  
15       terminal of the at least one of the functional blocks.

1           **Claim 6 (previously presented):** The semiconductor  
2       device as claimed in Claim 5, wherein the logic circuit is  
3       a memory.

1           **Claim 7 (currently amended):** A method of designing a  
2   semiconductor device, comprising the steps of:  
3       ~~which is formed by~~ combining and disposing pre-  
4   registered functional blocks, and  
5       determining a wiring pattern in accordance with a  
6   given logic circuit specification, ~~comprising the steps of:~~  
7       ~~registering the functional blocks in advance,~~  
8       wherein at least one of the functional blocks has a  
9   logic circuit and a diode, ~~and~~  
10       ~~wherein~~ the diode is composed of a first conduction  
11   type diffusion layer and a second conduction type well  
12   connected to a power source, and  
13       the diode is connected to a potential-clamped input  
14   terminal of the at least one of the functional blocks.

1           **Claim 8 (previously presented):** A computer-readable  
2   recording medium, on which the method of designing a  
3   semiconductor device, as claimed in Claim 7, is stored as  
4   a program to be executed by a computer.

1           **Claim 9 (currently amended):** A design support  
2   apparatus for a semiconductor device, comprising:  
3       ~~which is formed by~~ combining and disposing means for  
4   combining and disposing pre-registered functional blocks,  
5   and  
6       wiring means for determining a wiring pattern in

7 accordance with a given logic circuit specification,  
8 ~~comprising:~~

9 ~~registration means for registering the functional~~  
10 ~~blocks in advance,~~

11 wherein at least one of the functional blocks has a  
12 logic circuit and a diode, and

13 wherein the diode is composed of a first conduction  
14 type diffusion layer and a second conduction type well  
15 connected to a potential-clamped input terminal of the at  
16 least one of the functional blocks.

1 **Claim 10 (currently amended):** A semiconductor device,  
2 comprising:

3 ~~which is formed by combining~~ combining and disposing  
4 means for combining and disposing pre-registered functional  
5 blocks, and

6 wiring means for determining a wiring pattern in  
7 accordance with a given logic circuit specification,  
8 ~~wherein:~~

9 wherein at least one of the functional blocks  
10 ~~including functional blocks~~ has a logic circuit and a diode  
11 which is at least connected to an input pin where results  
12 of an antenna ratio exceed an allowed antenna ratio, ~~and~~  
13 the diode is composed of a first conduction type  
14 diffusion layer and a second conduction type well connected  
15 to a power source, and

16           the diode is connected to a potential-clamped input  
17       terminal of the at least one of the functional blocks.

1           **Claim 11 (previously presented):** The semiconductor  
2       device as claimed in Claim 10, wherein the logic circuit is  
3       a memory.

1           **Claim 12 (currently amended):** A method of designing a  
2       semiconductor device, comprising the steps of:  
3       ~~which is formed by~~ combining and disposing pre-  
4       registered functional blocks, and  
5       determining a wiring pattern in accordance with a  
6       given logic circuit specification, ~~comprising the steps of:~~  
7       ~~registering the functional blocks in advance,~~  
8       wherein at least one of the functional blocks has a  
9       logic circuit and a diode which is at least connected to an  
10      input pin where results of an antenna ratio exceed an  
11      allowed antenna ~~ration,~~ ratio,  
12      wherein the diode is composed of a first conduction  
13      type diffusion ~~later~~ layer and a second conduction type  
14      well connected to a power source, and  
15      the diode is connected to a potential-clamped input  
16      terminal of the at least one of the functional blocks.

1           **Claim 13 (previously presented):** A computer-readable  
2       recording medium, on which the method of designing a

3 semiconductor device, as claimed in Claim 12, is stored as  
4 a program to be executed by a computer.

1 **Claim 14 (currently amended):** A design support  
2 apparatus for a semiconductor device, ~~comprising:~~

3 ~~which is formed by~~ combining and disposing means for  
4 combining and disposing pre-registered functional blocks,  
5 and

6 wiring means for determining a wiring pattern in  
7 accordance with a given logic circuit specification,  
8 ~~comprising:~~

9 ~~registration means for registering the functional~~  
10 ~~blocks in advance,~~

11 wherein at least one of the functional blocks has a  
12 logic circuit and a diode which is at least connected to an  
13 input pin where results of an antenna ratio exceed an  
14 allowed antenna ratio, and

15 wherein the diode is composed of a first conduction  
16 type diffusion layer and a second conduction type well  
17 connected to a potential-clamped input terminal of the at  
18 least one of the functional blocks.

1 **Claim 15 (new):** The semiconductor device as claimed in  
2 Claim 5, wherein the diode is connected to a port between  
3 an output of the logic circuit and the input terminal of  
4 the functional block.